## AMENDMENTS TO THE CLAIMS

1. (Original) A removal cleaning method for a semiconductor substrate or a semiconductor device with metal wirings by using a remover composition, wherein the remover composition comprises a dissolution agent having an alumina dissolution amount as measured according to the standard test (A-1) of 10 ppm or more, and an inhibitor having an aluminum etching amount as measured according to the standard test (B-1) of 7 nm or less, and the remover composition substantially does not contain a fluorine-containing compound.

- 2. (Original) The removal cleaning method for a semiconductor substrate or a semiconductor device according to claim 1, wherein the dissolution agent is an acid.
- 3. (Currently amended) The removal cleaning method for a semiconductor substrate or a semiconductor device according to claim 1 or 2, wherein the inhibitor is an inorganic acid salt and/or an organic acid salt.
- 4. (Currently amended) The removal cleaning method for a semiconductor substrate or a semiconductor device according to any one of claims 1 to 3 claim 1, wherein the inhibitor is one or more salts selected from the group consisting of carboxylates, sulfates, sulfonates, phosphonates, nitrates, hydrochlorides and borates.
- 5. (Currently amended) The removal cleaning method for a semiconductor substrate or a semiconductor device according to any one of claims 1 to 4 claim 1, wherein a weight ratio of

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the dissolution agent to the inhibitor (dissolution agent/inhibitor) is 2/1 to 1/30.

- 6. (Currently amended) The removal cleaning method for a semiconductor substrate or a semiconductor device according to any one of claims 1 to 5 claim 1, wherein the remover composition comprises 50% by weight or more of water and has a pH of 1 to 10.
- 7. (Currently amended) The removal cleaning method for a semiconductor substrate or a semiconductor device according to any one of claims 1 to 6 claim 1, wherein the metal wirings comprise aluminum wirings having a wiring width of 180 nm or less.
- 8. (Original) A removal cleaning method for a semiconductor substrate or a semiconductor device with metal wirings having a wiring width of 180 nm or less by using a remover composition, wherein the remover composition comprises a dissolution agent having an alumina dissolution amount as measured according to the standard test (A-1) of 10 ppm or more, and an inhibitor having an aluminum etching amount as measured according to the standard test (B-1) of 7 nm or less.
- 9. (Currently amended) The removal cleaning method for a semiconductor substrate or a semiconductor device according to any one of claims 1 to 8 claim 1, wherein the metal wirings are metal wirings comprising one or more metals selected from the group consisting of aluminum, copper, tungsten and titanium.

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10. (Currently amended) A method of producing a semiconductor substrate or a semiconductor device, comprising the step involving the removal cleaning method for a semiconductor substrate or a semiconductor device as defined in any one of claims 1 to 9 claim 1.

- 11. (Original) A remover composition comprising an acid, and an inorganic acid salt and/or an organic acid salt, wherein the acid, and the inorganic acid salt and/or the organic acid salt are any one of the following (i) to (v):
- (i) the acid is 1-hydroxyethylidene-1,1-diphosphonic acid, and the inorganic acid salt and/or the organic acid salt is one or more salts selected from the group consisting of carboxylates, sulfates, sulfonates, phosphonates, nitrates, hydrochlorides and borates;
- (ii) the acid is sulfuric acid, and the inorganic acid salt is a sulfate and/or a nitrite;
- (iii) the acid is oxalic acid, and the inorganic acid salt is a phosphonate;
- (iv) the acid comprises sulfuric acid and oxalic acid, and the inorganic acid salt is a sulfate; and
- (v) the acid comprises 1-hydroxyethylidene-1,1-diphosphonic acid and oxalic acid, and the inorganic acid salt is a sulfate.
- 12. (Original) A remover composition, comprising a) water, and b) a compound having a solubility (25°C) in water of 10 g or more/100 g of water, wherein the content of the water a) is 50 to 99.8% by weight, and the content of the compound b) is 90% by weight or more of the portion of the remover composition excluding the water a), and the remover composition has an

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aluminum oxide dissolution amount as measured according to the standard test (A-2) of 10 ppm or more, and an aluminum etching amount as measured according to the standard test (B-2) of 7 nm or less.

- 13. (Original) The remover composition according to claim 12, wherein the remover composition comprises an acid, and an inorganic acid salt and/or an organic acid salt as the compound b).
- 14. (Original) The remover composition according to claim 13, wherein the acid is contained in an amount of 0.01 to 5% by weight, and the inorganic acid salt and/or the organic acid salt is contained in an amount of 0.2 to 40% by weight.
- 15. (Currently amended) The remover composition according to any one of claims 12 to 14 claim 12, wherein the remover composition has a pH of 1 to 10.
- 16. (Currently amended) A method of cleaning a semiconductor by using the remover composition as defined in any one of claims 12 to 15 claim 12.
- 17. (Original) The method of cleaning a semiconductor according to claim 16, wherein the semiconductor is a semiconductor with aluminum wirings having a wiring width of 180 nm or less.

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18. (Currently amended) A method of producing a semiconductor, comprising the step of cleaning using the cleaning method as defined in claim 16 or 17.

- 19. (Original) A water-based remover composition, comprising an aluminum oxide dissolution agent and an aluminum corrosion inhibitor, wherein the water-based remover composition has: 1) a water content of 50% by weight or more; 2) an aluminum oxide dissolution amount as measured according to the standard test (A-2) of 10 ppm or more; 3) an aluminum etching amount as measured according to the standard test (B-2) of 7 nm or less; and provides 4) a pH change before and after the standard test (A-2) of 0.5 or less.
- 20. (Original) The remover composition according to claim 19, wherein the aluminum oxide dissolution agent is an acid, and the aluminum corrosion inhibitor is an inorganic acid salt and/or an organic acid salt.
- 21. (Currently amended) The remover composition according to claim 19 or 20, wherein the remover composition has a pH of 1 to 10.
- 22. (Currently amended) A method of continuous cleaning of a semiconductor, comprising the step of cleaning at 60°C or lower, by using the remover composition as defined in any one of claims 19 to 21 claim 19.
- 23. (Original) The method of continuous cleaning of a semiconductor according to claim 22,

wherein a semiconductor substrate or a semiconductor device with aluminum wirings having a wiring width of 180 nm or less is used.

24. (Currently amended) A method of producing a semiconductor, comprising the step of cleaning using the method of continuous cleaning as defined in claim 22 or 23.

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